Ontario

Ministry of
Northern Affairs
and Mines

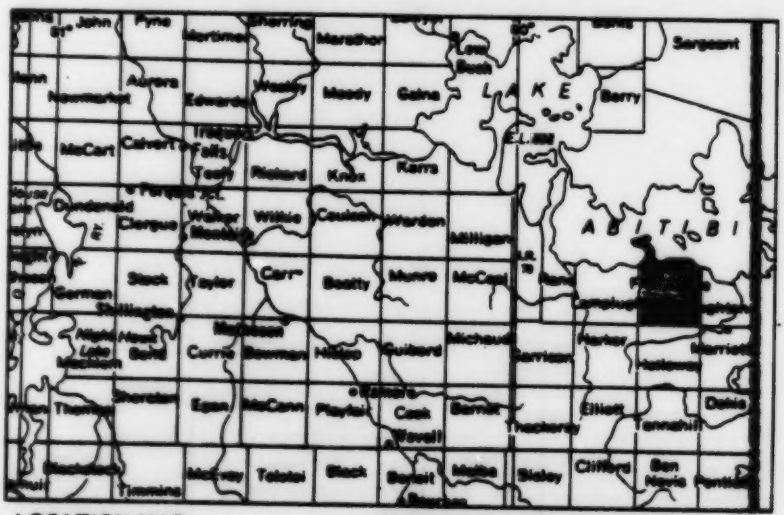
ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 268

FRECHEVILLE TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

86-02539/

NTS Number 32 D/12

Mining Claim Map Number M.348

This project is part of Operation Black River - Matheson (BRiM) which was funded equally by the Ontario Ministry of Northern Affairs and Mines and the Ontario Ministry of Natural Resources.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Frecheville Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 268, compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 16p. and 2 maps.

Original Compilation by: Kamal D. Kalicharran and Nick Cox, January 31, 1985

Date	Page Revised	Revised by

Date	Page Revised	Revised by

FRECHEVILLE TOWNSHIP

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 4
Drill Hole Summary 5
Airborne Geophysical Survey Data 6
Geochemical Survey Data 7
Miscellaneous Data 8
Newspaper Clipping File 9
ODM General Index Search 10
Selected References 12
Notes and Addenda 14

ACCOMPANYING MAPS

Property Location Map - 1 Map
Exploration Data Map - 1 Map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	KDK
2	Assessment Files Research Office, Toronto	No	NDC
3	ODM General Index; 7 volumes	Yes	KDK
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	NDC
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	KDK
6	ODM Industrial Mineral Reports	No	NDC
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	NDC
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	NDC
9	Newspaper Clippings File	No	NDC
10	GSC Index to Publications	No	NDC
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	No	NDC
12	OGS Index Maps	Yes	NDC
13	Source Mineral Deposit Records (O.G.S.)	No	KDK
14	Author - Subject Articles File	Yes	KDK
15	Miscellaneous Papers: ODM & OGS	No	NDC
16	ODM Geological Circulars: OGS Study Series	No	NDC
17	ODM Preliminary Reports: ODM Bulletins	No	NDC
18	ODM – OGS Open File Reports	No	NDC
19	OSS Northern Ontario Engineering Geology Terrain Studies	No	NDC
20	OGS Aggregate Resources Inventory Papers	No	KDK
21	OGS Mineral Potential Maps	No	KDK

METALS AND MINERALS REFERENCES LIST

- ▲ anh. . . . . Anhydrite
- ▲ ank. . . . . Ankerite
- ▲ anna. . . . . Annabergite
- ▲ ap. . . . . Apatite
- ▲ arg . . . . . Argentite
- ▲ As . . . . . Arsenic
- ▲ asp . . . . . Arsenopyrite
- ▲ asb . . . . . Asbestos
- ▲ ba. . . . . Barite
- ▲ be. . . . . Beryl
- ▲ Bi. . . . . Bismuth
- ▲ bn . . . . . Bornite
- ▲ bran . . . . . Brannerite
- ▲ bruc . . . . . Brucite
- ▲ Cd . . . . . Cadmium
- ▲ calc. . . . . Calcite
- ▲ carb . . . . . Carbonate
- ▲ cel . . . . . Celestite
- ▲ cc. . . . . Chalcocite
- ▲ cp. . . . . Chalcopyrite
- ▲ ch. . . . . Chert
- ▲ clay . . . . . Clay
- ▲ Co . . . . . Cobalt
- ▲ cob. . . . . Cobaltite
- ▲ cb. . . . . Columbite
- ▲ Cu . . . . . Copper
- ▲ cor . . . . . Corundum
- ▲ dol . . . . . Dolomite
- ▲ ep. . . . . Epidote
- ▲ ery . . . . . Erythrite
- ▲ fel . . . . . Feldspar
- ▲ fl . . . . . Fluorite (fluorspar)
- ▲ fu. . . . . Fuchsite
- ▲ gn. . . . . Galena
- ▲ gt. . . . . Garnet
- ▲ goe . . . . . Goethite
- ▲ Au . . . . . Gold
- ▲ gf. . . . . Graphite
- ▲ gl . . . . . Gravel
- ▲ gyp. . . . . Gypsum
- ▲ hem . . . . . Hematite
- ▲ il . . . . . Ilmenite
- ▲ Fe . . . . . Iron
- ▲ IF. . . . . Iron Formation
- ▲ jas . . . . . Jasper
- ▲ kaol . . . . . Kaolinite (kaolin)
- ▲ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- ▲ lim . . . . . Limonite
- ▲ Li. . . . . Lithium
- ▲ mgst . . . . . Magnesite
- ▲ mag . . . . . Magnetite
- ▲ mc . . . . . Malachite
- ▲ Mn . . . . . Manganese
- ▲ mb . . . . . Marble
- ▲ mar. . . . . Marcasite
- ▲ ma . . . . . Marl
- ▲ mi . . . . . Mica
- ▲ mi . . . . . Millerite
- ▲ mo . . . . . Molybdenite
- ▲ Mo . . . . . Molybdenum
- ▲ mon . . . . . Monazite
- ▲ ne. . . . . Nephelite (nepheline)
- ▲ nc. . . . . Niccolite
- ▲ Ni. . . . . Nickel
- ▲ Nb . . . . . Niobium
- ▲ Pd . . . . . Palladium
- ▲ peat . . . . . Peat
- ▲ pent . . . . . Pentlandite
- ▲ Pt. . . . . Platinum
- ▲ py . . . . . Pyrite
- ▲ pyl . . . . . Pyrochlore
- ▲ pyrl . . . . . Pyrolusite
- ▲ po . . . . . Pyrrhotite
- ▲ q . . . . . Quartz
- ▲ qcv . . . . . Quartz carbonate vein
- ▲ ra. . . . . Radioactive minerals
- ▲ RE . . . . . Rare Earths
- ▲ sd. . . . . Sand
- ▲ sgl . . . . . Sand and gravel
- ▲ ss . . . . . Sandstone
- ▲ scap . . . . . Scapolite
- ▲ shee . . . . . Scheelite
- ▲ serp . . . . . Serpentine
- ▲ sh. . . . . Shale
- ▲ sid . . . . . Siderite
- ▲ si . . . . . Silica
- ▲ Ag . . . . . Silver
- ▲ sl . . . . . Slate
- ▲ sm . . . . . Smaltite
- ▲ sod . . . . . Sodalite
- ▲ spec . . . . . Specularite
- ▲ sp. . . . . Sphalerite
- ▲ spd . . . . . Spodumene
- ▲ staur . . . . . Staurolite
- ▲ stib. . . . . Stibnite
- ▲ st . . . . . Stone
- ▲ talc. . . . . Talc
- ▲ Te . . . . . Tellurium
- ▲ td. . . . . Tetrahedrite
- ▲ th. . . . . Thorite
- ▲ Th . . . . . Thorium
- ▲ thuc . . . . . Thucholite
- ▲ ti . . . . . Titanite
- ▲ Ti. . . . . Titanium
- ▲ tour . . . . . Tourmaline
- ▲ trap . . . . . Trap rock
- ▲ W. . . . . Tungsten
- ▲ uran . . . . . Uraninite
- ▲ U . . . . . Uranium
- ▲ verm . . . . . Vermiculite
- ▲ Y . . . . . Yttrium
- ▲ Zn . . . . . Zinc
- ▲ zr. . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps and drill logs.

FRECHEVILLE TOWNSHIP

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Amax of Canada Limited AFRO file 2.3606								79	79										
2	Asarco Exploration Co. of Canada Ltd. AFRO file 2.7674										84	84								
3	Bruneau Mining Company Ltd. AFRO file 2.5904	83																		
4	Caltor Syndicate AFRO file 63.2995	71										71	71							
5	Canadian Johns-Manville Company Ltd. AFRO file 63.1093 " " Frecheville 12				61							61								
6	Dominion Gulf Company AFRO file 63.472 " " Frecheville 10				50							49								
7	Ionson, F.I. (Parres, A.) AFRO file 63.2026			65									65							
8	Modern Geophysics (Dixon, G.B.) AFRO file 63.1110											61								

GDIF FORM NO. 2

FRECHEVILLE TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
9	Noranda Exploration Co. Ltd. AFRO file 2.3528 " " 2.3155	79										78	78							
10	Patiño Mining Corp., The AFRO file 63.2968 " " Frecheville 11	71			71				71	71		71	71							

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Canadian Johns-Manville Co. Ltd.	1	02/61	023°	-45°	17'	717'	asb,mag	--
2	" "	2	02/61	023°	-45°	107'	875'	asb,mag,py	--
3	" "	3	03/61	023°	-45°	60'	138'	--	--
4	" "	4	03/61	023°	-45°	33'	511'	py,mag	--
5	" "	5	03/61	023°	-45°	35'	400'	py,mag	--
6	" "	6	04/61	023°	-45°	25'	400'	py,asb,mag	--
7	Dominion Gulf Co.	9	10/50	234°	-46°	85'	387'	--	--
8	" "	6	06/50	199°	-55°	81'	555'	mgst	--
9	Patino Mining Corp. The	71(5-8)-1	10/71	180°	--	16'	310	py,gf	Cu,Zn,Au

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

FRECHEVILLE TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	Aerodat Limited	Electromagnetic (900Hz. & 4200Hz.)	235'	N-S	200m
	Amax of Canada Limited	Magnetic (Barringer AM-104 Proton)	235'	N-S	200m
10	Questor Surveys Limited	Electromagnetic: (Mark V INPUT)	150'	N-S	1/8 mile
	Patino Mining Company, The	Magnetic: (Barringer AM-101 proton precession magnetometer)	?	N-S	1/8 mile

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

ODM GENERAL INDEX SEARCH

Words searched: Frecheville Tp., Burnt Hill, Goldsmith Mt., Lightning Mt., Lightning Pt., Trollope L.

Index Volume	Listing:	Report Volume	Part	Page
2	Frecheville Tp., Coch.			
	see also Burnt Hill			
	Goldsmith Mt.			
	Lightning Mt.			
	Lightning Pt.			
	Trollope L.			
	Claims staked	33	3	14
	Map, geological see map 28(b) with 28(2)			
	Magnetic declination	28	2	66
	Quartz veins, auriferous	28	2	44
	Schists, Keewatin	28	2	44
	Goldsmith Mt., Frecheville tp.			
	Altitude	28	2	4
	Rocks see map 28(b) with 28(2)			
	Lightning Mount, Frecheville tp.			
	Magnetic declination, serpentine	28	2	31,65,66
	Lightning Point, Abitibi Lake			
	Rocks	28	2	22
		2	22	
	Trollope Lake, Frecheville tp.			
	Length; clear water	28	2	4
	Rocks see map 28(b) with 28(2)			
	Burnt Hill, S. of Abitibi Lake			
	Altitude	28	2	4
5	Frecheville Tp., Coch.			
	Asbestos claims	62	7	27
	Rocks	62	7	14,15,23

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ginn, R.M.	1964	Timmins - Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253,440
Ministry of Natural Resources	1974	Ontario Mineral Map	ODM Map 2310	1:1,584,000
Ministry of Natural Resources, Ontario and Quebec	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500,000
Pyke, D.R., Ayres, L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253,440
Revised Compilation by S.B. Lambers & V.G. Milne, Geological Branch, 1976. Original Compilation by L.D. Ayres et al., 1970	1970	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1,013,760
		GEOLOGICAL REPORTS AND MAPS		
Jensen, L.S.	1982	Precambrian Geology of the Lightning Mountain area NTS 32D/12SE, Lightning River area, Cochrane District, Ontario	OGS Map P-2432	1/15840
Jensen, L.S. & Langford, F.F.	1983	Geology and Petrogenesis of the Abitibi Belt, Kirkland Lake area, Ontario	OGS open file report 5455	
Lovell, H.L., Frey, E.D. and G.S.C. staff	1973	Frecheville township, Cochrane District, Ontario Kirkland Lake Data Series	ODM Map P-798	4"=1mi

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS (Con't)		
Miller, W.G.	1907	Lake Abitibi gold deposits	OBM v.16, pt.1	p.219-220
		JOURNAL ARTICLES, THESES AND TECHNICAL PAPERS		
Baragar, W.R.A.	1968	Major element geochemistry of the Noranda volcanic belt, Quebec-Ontario, Canada	Can. J. Earth Sci. v.5	p.773-790
Geissmann, J.W., Strangway, D.W., Tasillo-Hirt, A.M. & Lensen, L.S.	1982	Paleomagnetism and structural geology of the Ghost Range, intrusive complex , Abitibi belt: further evidence for the late Archean Paleomagnetism of North America	Can. J. Earth Sci. v.19	p.2085-2099
Jolly, W.T.	1980	Degradation and development of Archean lavas, Abitibi area, in light of major element geochemistry	J. Petrol., v.21	p.323-363

LAKE ABITIBI

Lightning

Lightning Point

Lightning Bay

Lower Bay

St Patrick I

Mt Goldsmith
1,290'

48° 37' 30"

79° 45' 00"

79° 38' 00"

48°37' 30"

10

9

9

4

Lightning

Ontario

Ministry of Northern Affairs and Mines

René Font
Minister
David Hob
Deputy Mi

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 2

(Map **1** of **2**)

FRECHEVILLE TOWN

DISTRICT OF COCHRANE

Scale 1:31 680

Mile 0.5 0 0.5

Kilometre 0.5 0 0.5 1 Kilomet

LAKE ABITIBI

St Patrick I

Point

Lower

Bay

79° 38' 00"

48° 37' 30"

Mt Goldsmith
1,290'

10

9

9

4

Ontario

Ministry of Northern Affairs and Mines

René Fontaine
Minister
David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 268

(Map **1** of **2**)

FRECHEVILLE TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

LAMPLUGH TOWNSHIP

STOUGHTON TOWNSHIP

HOLLOWAY TOWNSHIP

Lightning River

Trollope Lake

Defoe L.

Burnt Hill

Lightning Mt.

79° 45' 00"

48° 32' 30"

9

9

4

10

2

2

10

5

6

1

1

7

8

8

5

7

5

7

6

7

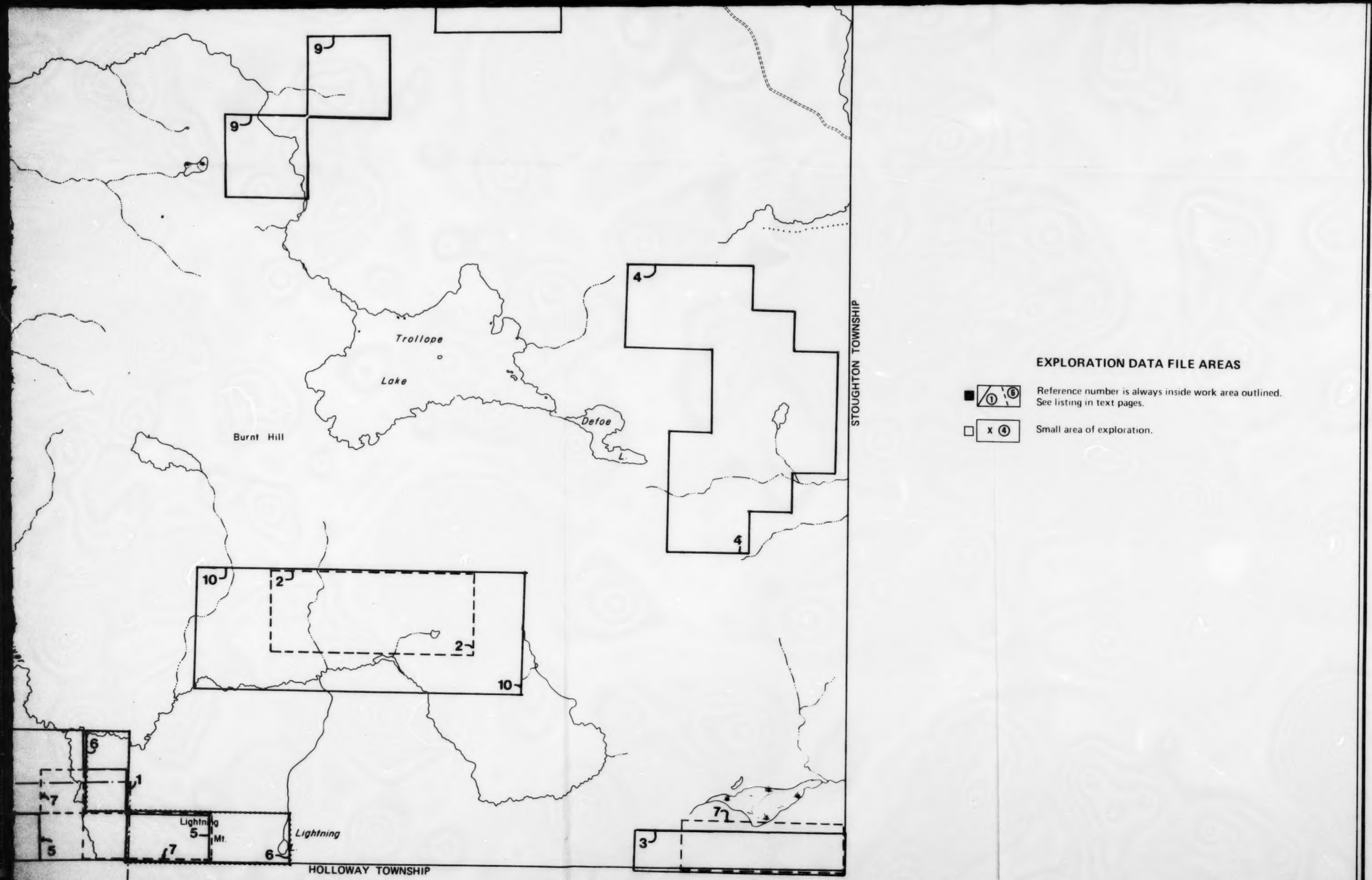
3

4

EXPLORATION DATA FILE AREA

■ ① ⑤ Reference number is always inside work ar
See listing in text pages.

□ x ④ Small area of exploration.



EXPLORATION DATA FILE AREAS

■ ① ⑤ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration.

LAKE ABITIBI

Lightning

Lightning Bay

Point

Lower Bay

St Patrick I

Mt Goldsmith 1,290'

48°39'30"

48°37'30"

79°38'00"

TYPES OF DATA SHOWN ON THIS MAP

GEOPHYSICAL ANOMALIES

- AM — Airborne Magnetometer Anomaly
- Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly

LAKE ABITIBI

St Patrick I

Point

Lower

Bay

Mt Goldsmith
1,290'

48°37' 30"

79° 38' 00"

VL,HL M

M VL M

VL

HL M

M M

Ontario

Ministry of Northern Affairs and Mines

René Fontaine
Minister
David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 268

(Map **2** of **2**)

FRECHEVILLE TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 94' — Mineral occurrence with shaft, depth given with reference letter
- Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter

DRILL HOLES

- ●2 — Location of single drill hole, with reference number

- Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ARA — Airborne Radiometric Anomaly
- M — Ground Magnetometer Anomaly
- VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- RA — Ground Radiometric Anomaly
- IP — Induced Polarization Anomaly
- SP — Self Potential Anomaly
- AFMAG — Audio-frequency magnetometer anomaly (total intensity)
- R — Resistivity Anomaly
- GR — Gravity Anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

LAMPLUGH TOWNSHIP

STOUGHTON TOWNSHIP

HOLLOWAY TOWNSHIP

Lightning River

Trollope Lake

Defoe L.

Burnt Hill

Lightning Mt.

Lightning L.

48°32' 30"

79°45' 00"

Mineral occurrence at surface, with reference letter

Mineral occurrence with shaft, depth given with reference letter

Mineral occurrence reported but exact location uncertain, with reference letter

Mineralized Float with reference letter

DRILL HOLES

Location of single drill hole, with reference number

Location of closely spaced group of drill holes, with reference number

Drill hole, exact location uncertain, with reference number.

Property with underground drill holes in this general area, with reference number

Property with drill holes which have not been plotted on map, with reference number

Reverse Circulation Drill Hole; Churn drilling, with reference number

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

Geochemical sample site, with reference number

Area of geochemical sampling, with reference number

Age dating material sampling site, with reference number

CDIL 1982